Table R-11: 1998 Key Source Tier 1 Analysis - Level Assessment

IPCC Source Categories	Direct Greenhouse Gas	Base Year Estimate (Tg CO_2 Eq.)	Current Year Estimate (Tg CO_2 Eq.)	Level Assessment	Cumulative Total
CO_2 Emissions from Stationary Combustion - Coal	CO_2	1,697.29	1,957.32	0.29	0.29
Mobile Combustion: Road & Other	CO_2	1,244.98	1,443.49	0.21	0.50
CO_2 Emissions from Stationary Combustion - Gas	CO_2	976.63	1,142.14	0.17	0.67
CO_2 Emissions from Stationary Combustion - Oil	CO_2	669.99	666.77	0.10	0.77
Direct N_2O Emissions from Agricultural Soils	N_2O	193.71	218.97	0.03	0.80
CH_4 Emissions from Solid Waste Disposal Sites	CH_4	212.07	202.42	0.03	0.83
Mobile Combustion: Aviation	CO_2	176.88	183.02	0.03	0.85
Fugitive Emissions from Natural Gas Operations	CH_4	122.01	123.97	0.02	0.87
CH_4 Emissions from Enteric Fermentation in Domestic Livestock	CH4	117.85	116.70	0.02	0.89
Indirect N_2O Emissions from Nitrogen Used in Agriculture	N_2O	73.83	80.18	0.01	0.90
Fugitive Emissions from Coal Mining and Handling	CH4	87.12	67.94	0.01	0.91
CO_2 Emissions from Iron and Steel Production	CO_2	85.41	67.43	0.01	0.92
Mobile Combustion: Road & Other	N_2O	48.56	57.61	0.01	0.93
Emissions from Substitutes for Ozone Depleting Substances	Several	0.94	44.53	0.01	0.94
HFC-23 Emissions from HCFC-22 Manufacture	HFCs	34.98	40.15	0.01	0.94
CO_2 Emissions from Cement Production	CO_2	33.28	39.22	0.01	0.95
CH_4 Emissions from Manure Management	CH_4	31.28	39.02	0.01	0.95
CH_4 Emissions from Wastewater Handling	CH_4	24.08	27.67	<0.01	0.96
Mobile Combustion: Marine	CO_2	48.60	27.40	<0.01	0.96
Fugitive Emissions from Oil Operations	CH_4	27.49	22.90	<0.01	0.97
CO_2 Emissions from Waste Incineration	CO_2	14.07	22.45	<0.01	0.97
CO_2 Emissions from Ammonia Production and Urea Application	CO_2	19.31	21.93	<0.01	0.97
N_2O Emissions from Nitric Acid Production	N_2O	17.85	20.89	<0.01	0.98
SF_6 Emissions from Electrical Equipment	SF_6	32.10	20.86	<0.01	0.98
N_2O Emissions from Manure Management	N_2O	16.18	17.33	<0.01	0.98
N_2O Emissions from Wastewater Handling	N_2O	12.71	14.63	<0.01	0.98
CO_2 Emissions from Lime Production	CO_2	11.24	13.91	<0.01	0.99
Non-CO_2 Emissions from Stationary Combustion	N_2O	12.52	13.69	<0.01	0.99
PFC Emissions from Aluminum Production	PFCs	18.11	9.04	<0.01	0.99
CH_4 Emissions from Rice Production	CH_4	7.12	7.90	<0.01	0.99
CO_2 Emissions from Limestone and Dolomite Use	CO_2	5.47	7.33	<0.01	0.99
PFC, HFC, and SF_6 Emissions from Semiconductor Manufacture	SF_6	2.86	7.26	<0.01	0.99
Non-CO_2 Emissions from Stationary Combustion	CH_4	8.14	7.17	<0.01	0.99
CO_2 Emissions from Natural Gas Flaring	CO_2	5.51	6.25	<0.01	0.99
N_2O Emissions from Adipic Acid Production	N_2O	15.20	5.99	<0.01	0.99
CO_2 Emissions from Aluminum Production	CO_2	6.31	5.79	<0.01	1.00

SF$_6$ Emissions from Magnesium Production	SF$_6$	5.37	5.79	<0.01	1.00
N$_2$O Emissions from N$_2$O Product Usage	N$_2$O	4.30	4.79	<0.01	1.00
Mobile Combustion: Road & Other	CH$_4$	4.73	4.36	<0.01	1.00
CO$_2$ Emissions from Soda Ash Manufacture and Consumption	CO$_2$	4.14	4.32	<0.01	1.00
CO$_2$ Emissions from Ferroalloys	CO$_2$	1.98	2.03	<0.01	1.00
CO$_2$ Emissions from Titanium Dioxide Production	CO$_2$	1.31	1.82	<0.01	1.00
Mobile Combustion: Aviation	N$_2$O	1.71	1.78	<0.01	1.00
CH$_4$ Emissions from Petrochemical Production	CH$_4$	1.17	1.64	<0.01	1.00
CO$_2$ Emissions from CO$_2$ Consumption	CO$_2$	0.90	1.19	<0.01	1.00
CH$_4$ Emissions from Agricultural Residue Burning	CH$_4$	0.68	0.78	<0.01	1.00
N$_2$O Emissions from Agricultural Residue Burning	N$_2$O	0.37	0.45	<0.01	1.00
CO$_2$ Emissions from Stationary Combustion - Geothermal Energy	CO$_2$	0.40	0.38	<0.01	1.00
Mobile Combustion: Marine	N$_2$O	0.36	0.26	<0.01	1.00
N$_2$O Emissions from Waste Incineration	N$_2$O	0.29	0.24	<0.01	1.00
Mobile Combustion: Aviation	CH$_4$	0.16	0.15	<0.01	1.00
Mobile Combustion: Marine	CH$_4$	0.07	0.05	<0.01	1.00
CH$_4$ Emissions from Silicon Carbide Production	CH$_4$	0.03	0.02	<0.01	1.00
TOTAL		**6,139.64**	**6,801.35**	**1.00**	

Note: Sinks (e.g., LUCF, Landfill Carbon Storage) are not included in this analysis.